

Rocky Mountain Mapping Center

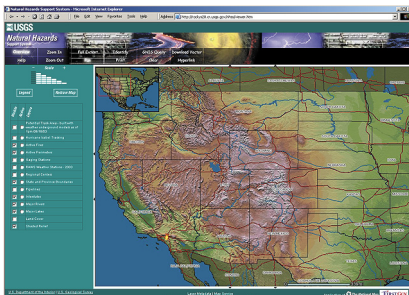
Homeland Security and Emergency Response

Customized Internet Mapping Applications

The Rocky Mountain Mapping Center (RMMC) has implemented several sophisticated web-based applications to support Homeland Security and Emergency Response. Each application is developed in cooperation with federal partners and the emergency response community to support monitoring of natural resources or emergency response to environmental and man-made hazards. These applications not only demonstrate the value found by combining *The National Map* geospatial data with advanced functionality, they also create state of the art decision support tools for Homeland Security offices and emergency responders.

Natural Hazards Support System

The United States is exposed to a wide range of natural hazards due to its natural, climactic, and geographic diversity. Hazards disrupt nearly every sector of the U.S., including industry, transportation, schools, hospitals, water

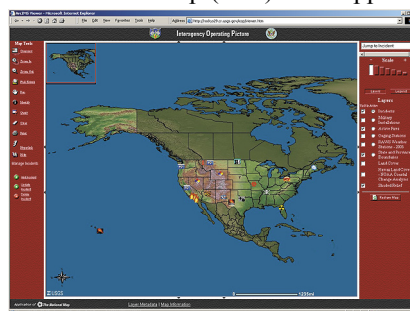


and power. Providing public agencies, communities and individuals with knowledge is vital in reducing hazard vulnerability and responding effectively after a hazard event. Increasing this knowledge means focusing science and technology to improve hazard response. USGS scientists at Rocky Mountain Mapping Center

(RMMC) are currently developing a Natural Hazards Support System (NHSS) web application to aid in the monitoring, support, and response to natural hazards in the United States. NHSS demonstrates the power of integrating *The National Map* with specific hazards information to provide a one-stop approach to accessing critical data used in monitoring hazards and reducing hazard risks.

Interagency Operational Picture

One of the key aspects to Homeland Security is tracking and evaluating potential threats in the United States. The Interagency Operational Picture (IOP) is a real-time interactive web-based application that supports incident reporting for the United States Northern Command's (USNORTHCOM), Interagency Coordination Group (ICG). This applica-



tion provides the tools, data and national perspective to enhance situational awareness in the command's area of responsibility. Incidents and associated information, including situation reports, are added to the IOP to provide a real-time visual context. The ICG can use the IOP as an operational tool to present situational awareness to both Department of Defense (DoD) and non-DoD participants.

Environmental Protection Agency (EPA) Region VIII Oil Response Application

The USGS, RMMC, and the EPA's Region VIII Oil Response Program have implemented web-based information and decision support applications for several specific sites (Big Hole River, Green River, etc). Each application significantly improves the mitigation of hazardous spills by supporting expedient access to the associated digital geo-referenced information.

Geospatial Multi-agency Coordination Group (GeoMAC) Wildland Fire Response Application

GeoMAC is a real-time Internet mapping system that allows wildland fire managers and the public to pinpoint the location and size of existing wildfires using geospatial information. GeoMAC is a collaboration between federal, state, and local stakeholders.



Development of these applications supports not only the USGS mission, but also contributes to the development of additional *The National Map* partnerships.

For more information

URL: <http://rockys20.cr.usgs.gov>

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